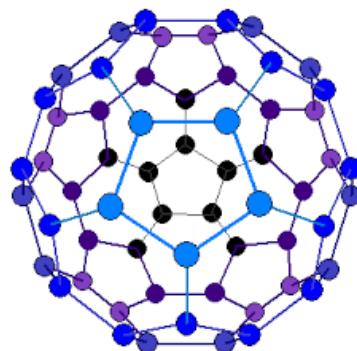




**RAYAT SHIKSHAN SANSTHA'S
MAHATMA PHULE ARTS, SCIENCE AND COMMERCE COLLEGE, PANVEL.**

**DEPARTMENT OF CHEMISTRY
DBT STAR COLLEGE SCHEME 2022-23**

**PHOTO-GALLERY OF THE ACTIVITIES
CONDUCTED UNDER DBT STAR COLLEGE
SCHEME IN THE ACADEMIC YEAR 2022-23**



**PHOTO-GALLERY OF NEW
EXPERIMENTS CONDUCTED UNDER
DBT STAR COLLEGE SCHEME IN THE
ACADEMIC YEAR 2022-23**

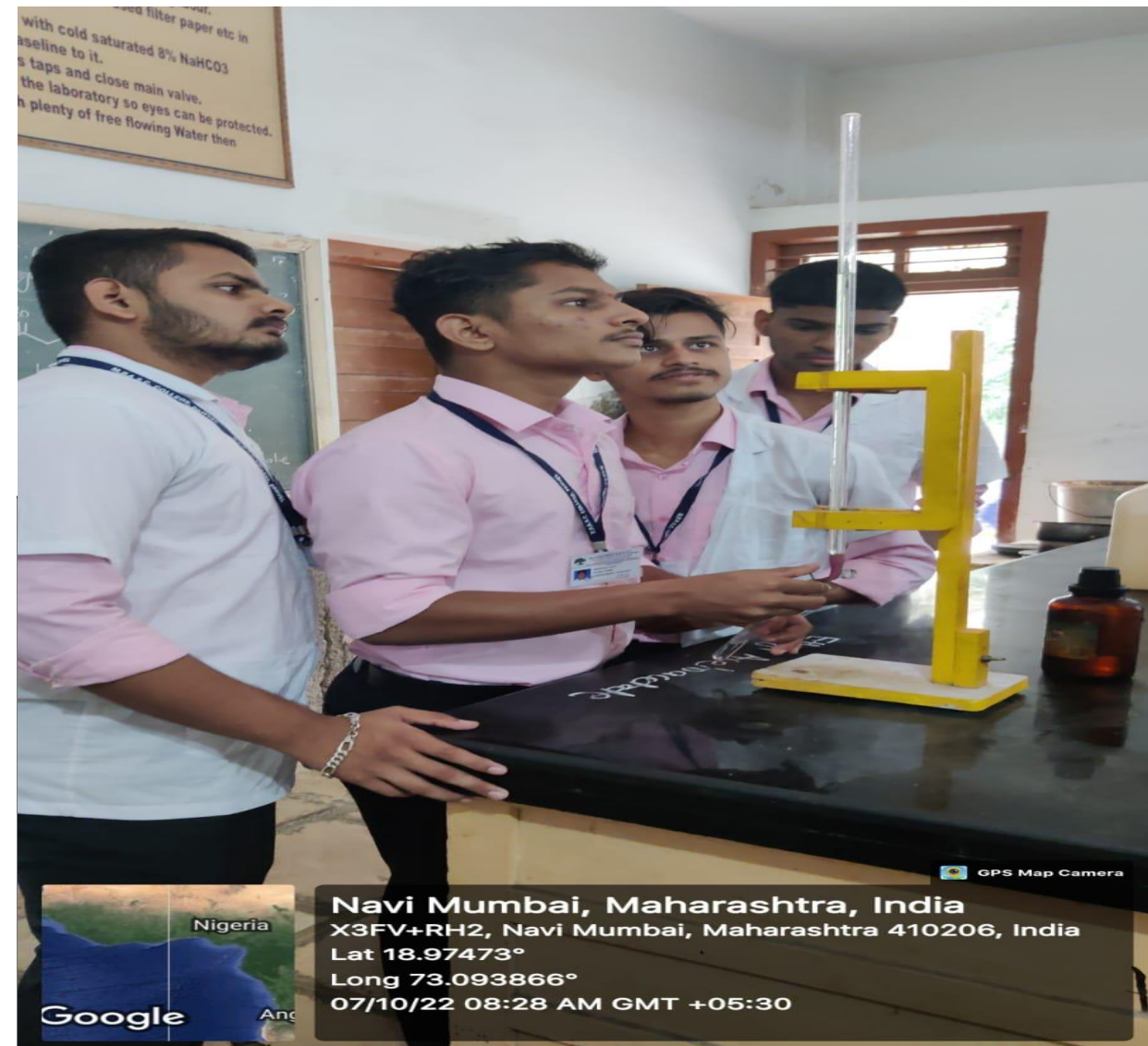
Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
F.Y.B.Sc	Rapid detection of chemical adulterants of milk.	Colorimeter, Weighing balance	17–21 Jan 2023	106



Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
F.Y.B.Sc	Physicochemical study of water sample of nearby water bodies.	Nephelometer / turbidimeter, Weighing balance	16-Jan – 7 Feb 2023	102



Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
S.Y.B.Sc	Green synthesis of diversely functinalized oxindole.	Weighing balance	4-7 Oct - 2022	128



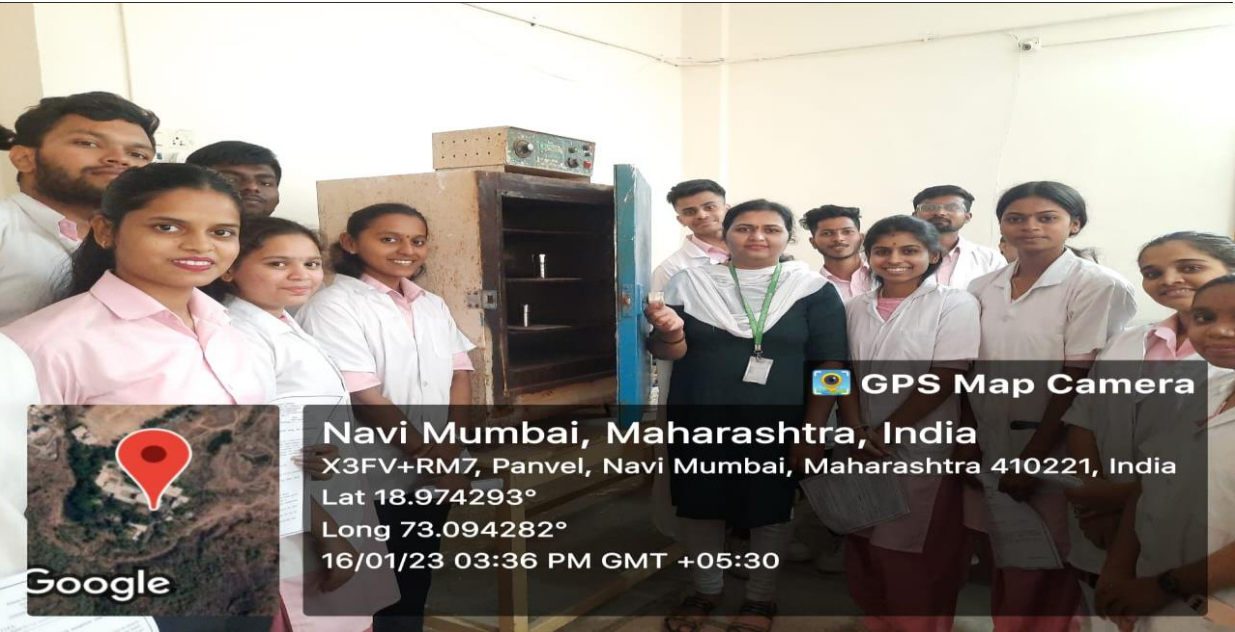
Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
S.Y.B.Sc	Analysis of micronutrients of soil samples.	Flame Photometer	17–21 Jan 2023	125



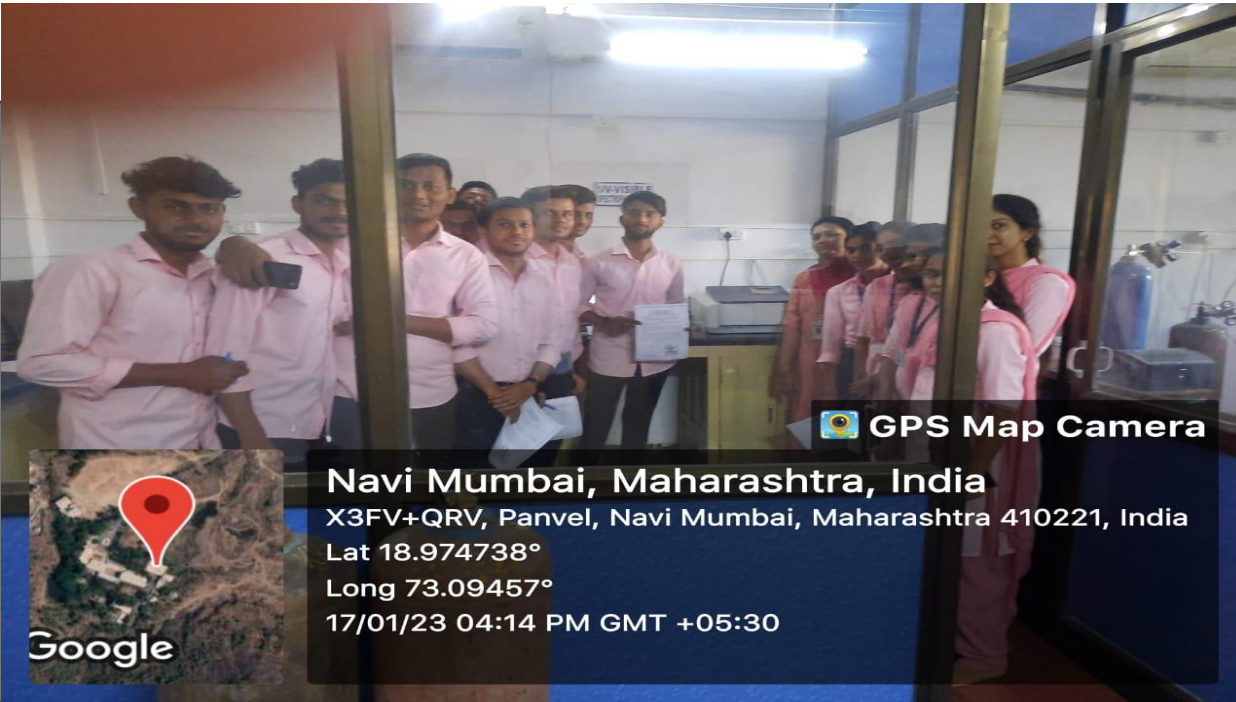
Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
S.Y.B.Sc	Preparation of sanitizer, soap, handwash and perfumes.	Rotary Shaker	16–20 Jan 2023	110



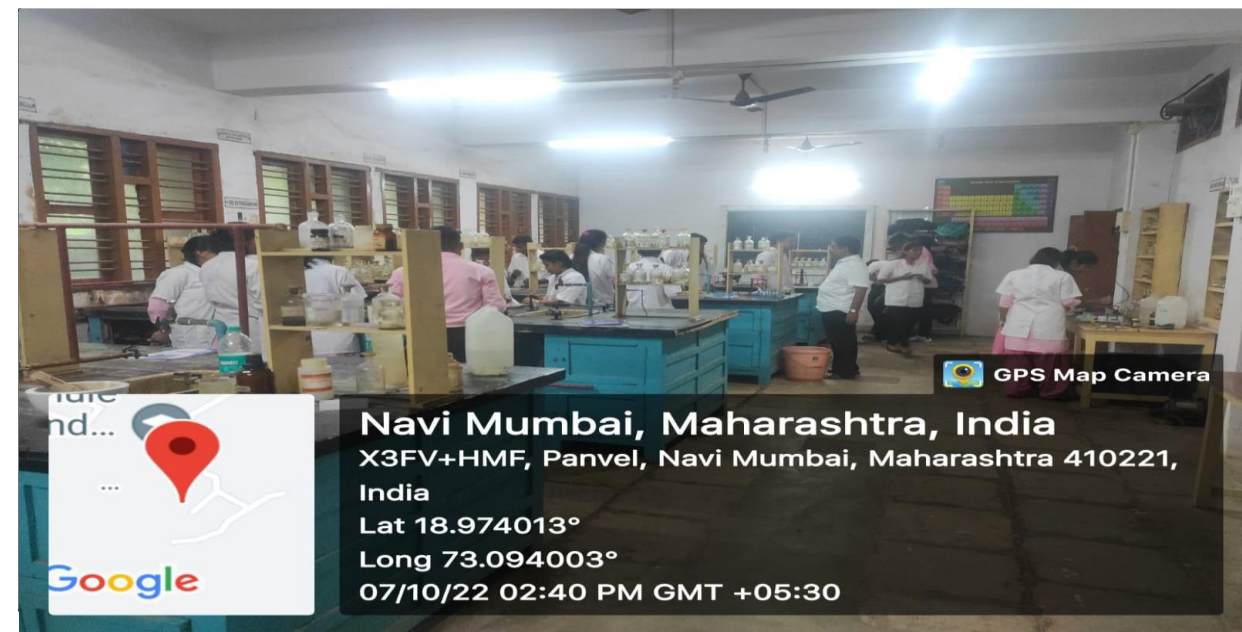
Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc	Synthesis and characterization of ZnO nanomaterial.	Autoclave, Oven, Magnetic stirrer	16/01/2023	110



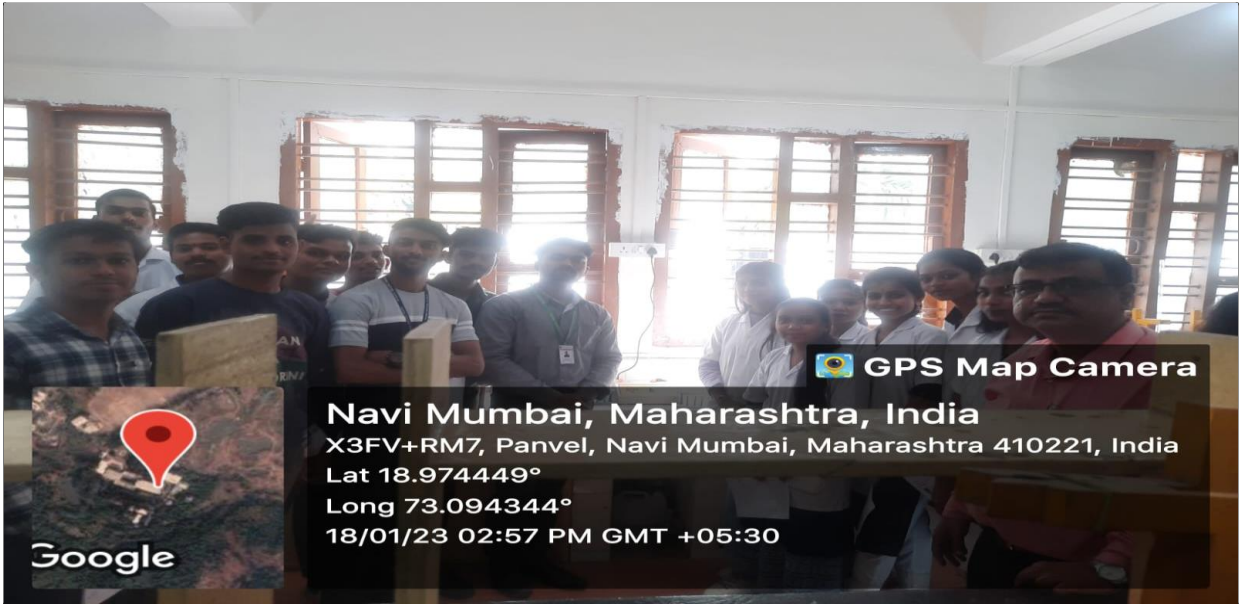
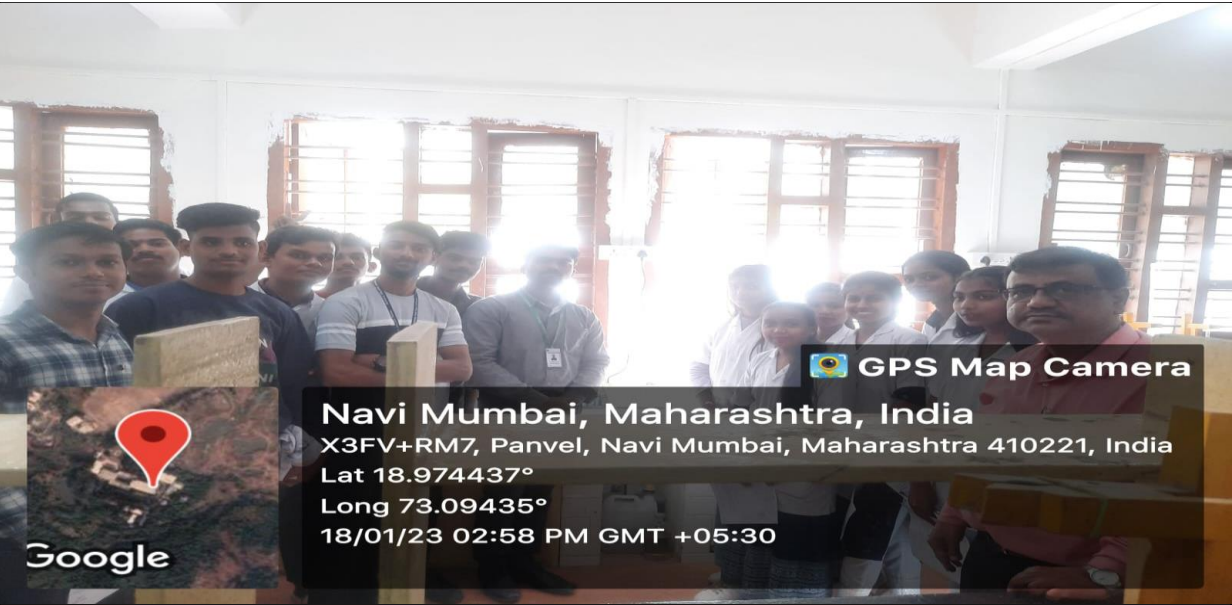
Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc	Heavy metal analysis of industrial waste water Cr(VI).	UV-Visible spectrophotometer	17/01/2023	114



Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc	Synthesis of mixed ligand complex & determination of its magnetic susceptibility.	pH meter	07/10/2022	110



Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc	Estimation of protein by using Biuret method	Colorimeter	18/1/2023	114



Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc	Extraction of organic compounds from plants present in college campus.	Rotary Shaker, Mortal Pestal, Electric water bath.	06/10/2022	113



**PHOTO-GALLERY OF MINOR
RESEARCH PROJECTS CONDUCTED
UNDER DBT STAR COLLEGE
SCHEME IN THE ACADEMIC YEAR
2022-23**

Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
F.Y.B.Sc	Analysis of Water Quality Variables from Water Bodies of Navi Mumbai	Turbidimeter, pH meter, Conductometer, Oven, Water bath	01/01/2023 to 30/04/2023	86



Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
S.Y.B.Sc	Green Synthesis of Heterocyclic scaffolds for their biological evaluation	Magnetic Stirrer with hot plate, Digital balance, U.V. Visible Cabinet, Oven, Rotary Evaporator with vacuum pump.	07/01/2023 to 15/04/2023	47



Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
S.Y.B.Sc	Estimation of various chemical constituents of regional seasonal fruits	Soxhlet Apparatus, Magnetic Stirrer with hot plate, Digital balance	07/01/2023 to 15/04/2023	28



Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc	Synthesis & Characterization of nano-materials from single precursor	Horizontal tube furnace with vaccum pump, Weighing balance	07/01/2023 to 30/04/2023	48



Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc	Extraction of chemical constituents from Medicinal Plants	Soxhlet Apparatus, Magnetic Stirrer with hot plate, Digital balance	07/01/2023 to 30/04/2023	48

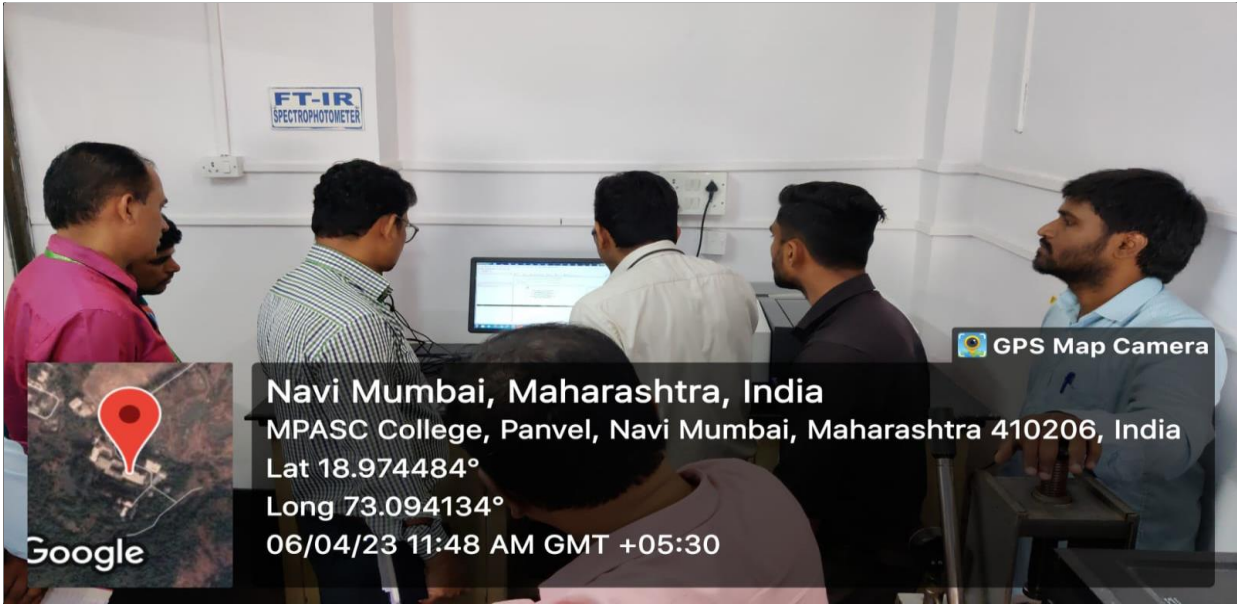


Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc	Preparation, characterization and antimicrobial activity of mixed ligand complexes.	Magnetic Stirrer with hot plate, Digital balance, Oven, Suction pump,	07/01/2023 to 20/03/2023	24

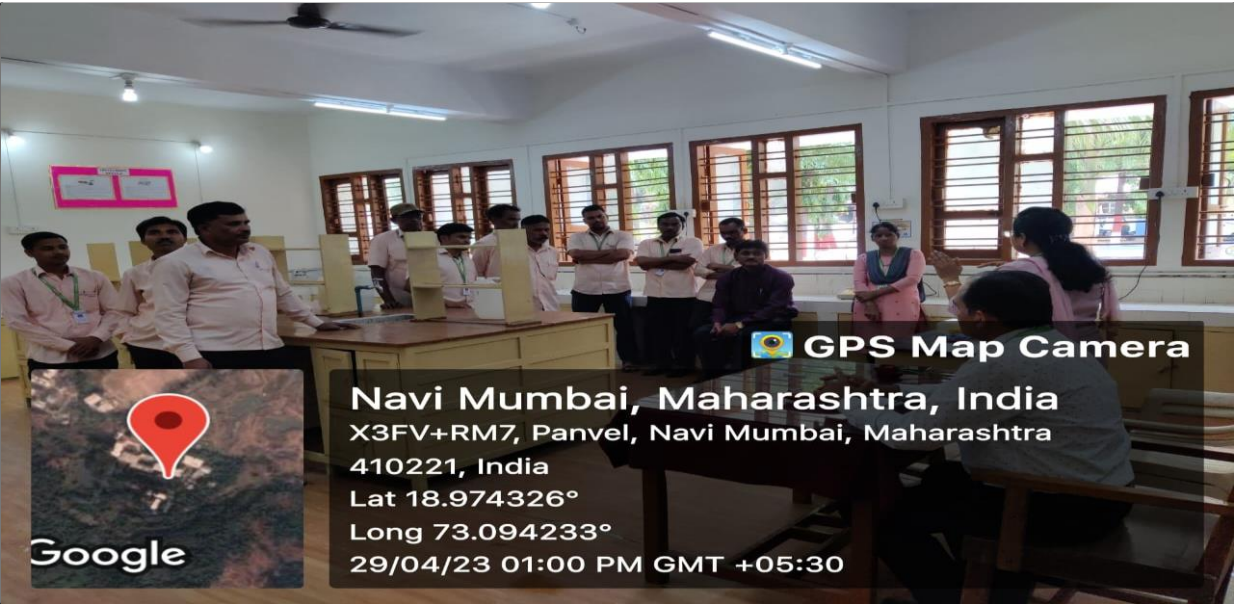


**PHOTO-GALLERY OF FACULTY
IMPROVEMENT/TRAINING
PROGRAMMES ORGANIZED UNDER
DBT STAR COLLEGE SCHEME IN THE
ACADEMIC YEAR 2022-23**

Title of Programme	Dates
Demonstration and hands on training of Sophisticated Scientific Instruments	04/04/2023



Title of Programme	Dates
Maintenance of Scientific Instruments	29/04/2023



**PHOTO-GALLERY OF
INVITED/EXPERT/GUEST
LECTURES ORGANIZED UNDER DBT
STAR COLLEGE SCHEME IN THE
ACADEMIC YEAR 2022-23**

Title of Activity	Date	Resource Person/Chief Guest	Beneficiaries
Opportunities in Space Science	13/12/2022	Mr. Pradnesh Mhatre, SPACE SCIENCE RESEARCHER, NASA, USA	175



Title of Activity	Date	Resource Person/Chief Guest	Beneficiaries
Preparation of Household Chemicals	14/03/2023	Mrs. Shilpa Nikam, Home Based Business Development-Research and Training.	80



**PHOTO-GALLERY OF
INTERDISCIPLINARY ACTIVITIES
ORGANIZED UNDER DBT STAR
COLLEGE SCHEME IN THE
ACADEMIC YEAR 2022-23**

Title of Activity	Date	Resource Person/Chief Guest	Beneficiaries
Chemistry Model Competition	30/09/2022	Dr. V. S. Shivankar	210



Title of Activity	Date	Resource Person/Chief Guest	Beneficiaries
Chem-Poster Competition	02/03/2023	Mr. P. A. Gaikwad	06



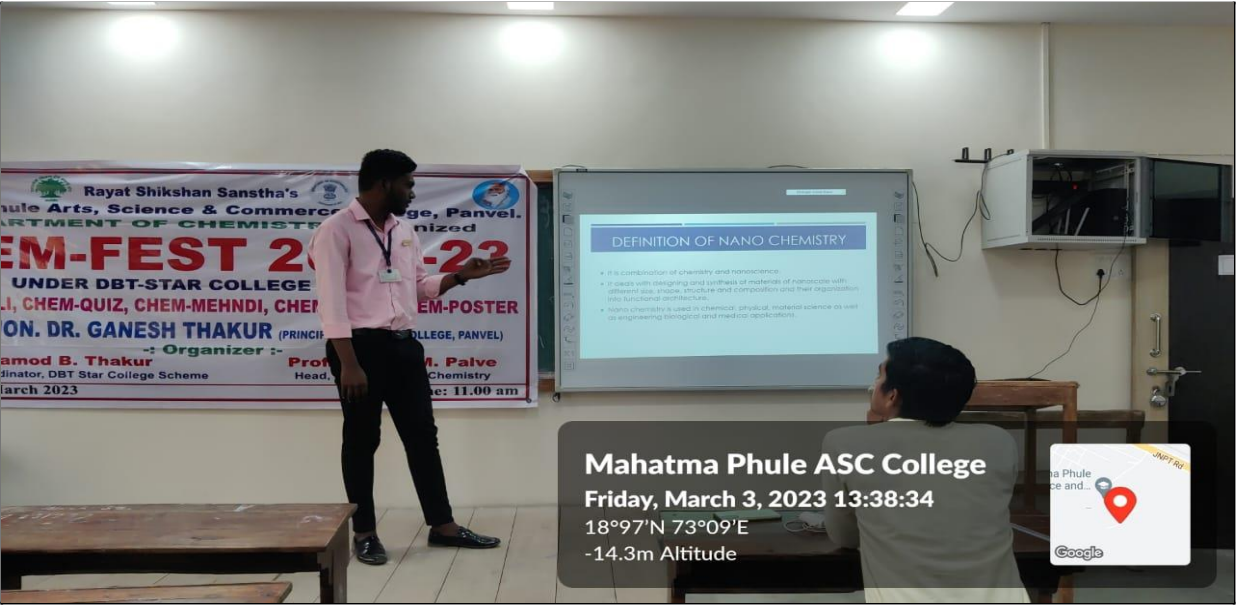
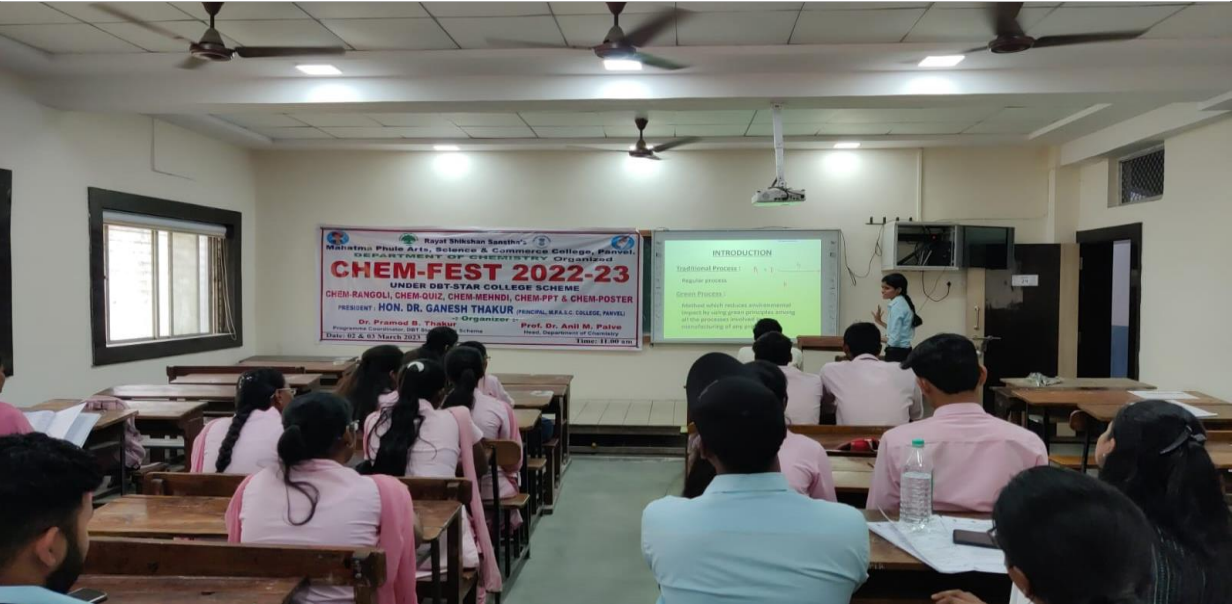
Title of Activity	Date	Resource Person/Chief Guest	Beneficiaries
Chem Rangoli	02/03/2023	Dr. R. K. Kadu	78



Title of Activity	Date	Resource Person/Chief Guest	Beneficiaries
Chem Mehndi	02/03/2023	Ms. R. A. Gatade	17



Title of Activity	Date	Resource Person/Chief Guest	Beneficiaries
PPT Competition	03/03/2023	Mr. V. A. Naik	19



Title of Activity	Date	Resource Person/Chief Guest	Beneficiaries
Chem-Quiz Competition	03/03/2023	Mr. N. A. Sasane	160



**PHOTO-GALLERY OF OUTREACH
ACTIVITIES ORGANIZED UNDER
DBT STAR COLLEGE SCHEME IN THE
ACADEMIC YEAR 2022-23**

Title of Outreach Activity	Date	Beneficiaries
Collection and Analysis of Drinking Water Samples of Nearby School.	11/01/2023	423



Title of Outreach Activity	Date	Beneficiaries
Study Tour to Amul Dairy, Taloja MIDC, Navi Mumbai.	18/03/2023	45



Title of Outreach Activity	Date	Beneficiaries
Study Tour to Srikem Laboratory, Taloja MIDC, Navi Mumbai.	18/03/2023	45



Title of Outreach Activity	Date	Beneficiaries
Study Tour to Bisleri International Pvt. Ltd, Kamshet, Lonavala.	25/03/2023	38





**THANK
YOU**



Department of Biotechnology Govt. of India



Star College Scheme

